

Photographic Log for Memphis Regional Intermodal Facility



Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
1	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-11 • The swale located south of the eastern wye track and main line track up-gradient from SW23 is shown in this photo. • The bottom of the swale appeared to be sufficiently stabilized/vegetated. However, the slopes of the berm were not - see photo 2 for close-up of berm. • Although the berm appears to have more established vegetation than during the March 12, 2012, inspection, the berm remains insufficiently stabilized/vegetated. 			

Photo No.	Date		
2	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-11 • A close-up of the berm located south of the eastern wye track shown in photo 1 is shown in this photo. • Rills and gullies were observed. • The berm was not sufficiently stabilized/vegetated with permanent perennial vegetation. • Although the berm appears to have more established vegetation than during the March 12, 2012, inspection, the berm remains insufficiently stabilized/vegetated. 			

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Photo No.	Date		
3	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-21 • SW23 • The lower portion of the swale leading to SW23 appeared to be sufficiently stabilized/vegetated in some areas. However, erosion was observed on the slope adjacent to the rip rap. 			

Photo No.	Date		
4	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-21 • SW22 • The swale leading to SW22 appeared to be sufficiently stabilized/vegetated in some areas. However, insufficiently stabilized/vegetated areas were observed throughout the swale/slope. 			

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Operator: Norfolk Southern Railway Company		Site Location: Rossville, Fayette County	Tracking No.: TN0081108
Photo No. 5	Date 8-30-12		
Description <ul style="list-style-type: none">• Phase 2 EC-21• SW24• The swale leading to SW24 appeared to be sufficiently stabilized/vegetated in some areas. However, insufficiently stabilized/vegetated areas were observed throughout the swale/slope.			
Photo No. 6	Date 8-30-12		
Description <ul style="list-style-type: none">• Phase 2 EC-21• SW25• The swale leading to SW25 appeared to be sufficiently stabilized/vegetated in some areas. However, insufficiently stabilized/vegetated areas were observed throughout the swale/slope.• Erosion gullies were observed adjacent to the rip rap located on the bank of Stream 5.			

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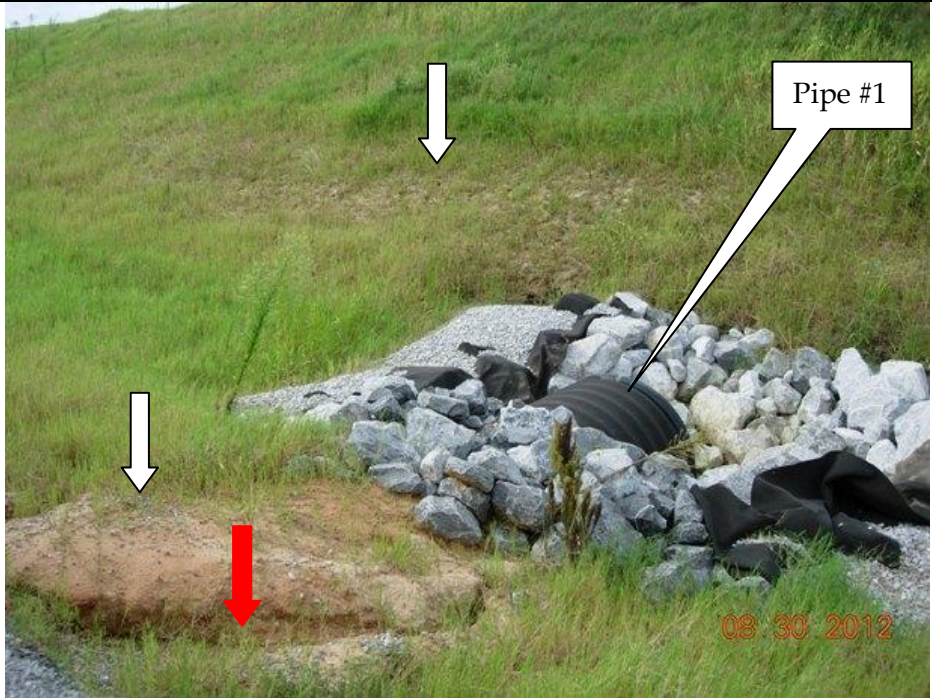




Operator:		Site Location:	Tracking No.:
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Photo No.	Date		
7	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-21 • Stream 5 looking upstream from the eastern wye bridge over Stream 5. • The banks of the stream appeared to be sufficiently covered with rip rap. 			

Photo No.	Date		
8	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-21 • Stream 5 looking downstream from the eastern wye bridge over Stream 5. • The fabric on the bank of Stream 5 adjacent to SW25 did not appear to be permanent or provide adequate stabilization. 			



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Photo No.	Date		
9	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-21 • Pipe #1 • The swale conveying drainage to Pipe #1 appeared sufficiently stabilized/vegetated in areas. However, sparse vegetation was observed in areas including but not limited to the slope up-gradient (white arrows) and adjacent to the pipe. • A gully has formed adjacent to the top of the pipe (red arrow). 			
10	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-21 • SW21 • The vegetative cover on the banks and bottom of the swale down-gradient from Pipe #1 and up-gradient from SW21 appeared sufficiently stabilized/vegetated with the exception of an area at the top of the headwall. 			

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Photo No.	Date		
11	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-23 • The noise berm at approximately Lead Track L-1 Station 35+00 is shown in this photo. • Ms. Hagerty indicated that because slope failure had been observed, the berm had recently been re-graded and sprayed with ProMatrix. • Vegetative growth in the newly sprayed areas was not observed. • Insufficient stabilization/vegetation was previously documented during inspections conducted on August 23, 2011, and March 12, 2012. 			
Photo No.	Date		
12	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-23 • Pipe #3 is shown in the left side of the photo. • Pipe #3 and the swale along the eastern side of the noise berm drain into Pipe #2. • Areas of the slope and swale surrounding Pipes #2 and #3 were not sufficiently vegetated, including but not limited to the transition area between the gravel and vegetation. 			

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Photo No.	Date		
13	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-23 • SW3 • The area surrounding SW3 appeared sufficiently vegetated/stabilized, except for a few areas, including but not limited to the area directly down-gradient of the headwall and rip rap (arrow). 			
14	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-23 • SW4 • The area surrounding SW4 appeared sufficiently vegetated/stabilized, except for a few areas, including but not limited to the area north of the outfall adjacent to the Enhanced Rock Check Dam (ERCD). 			

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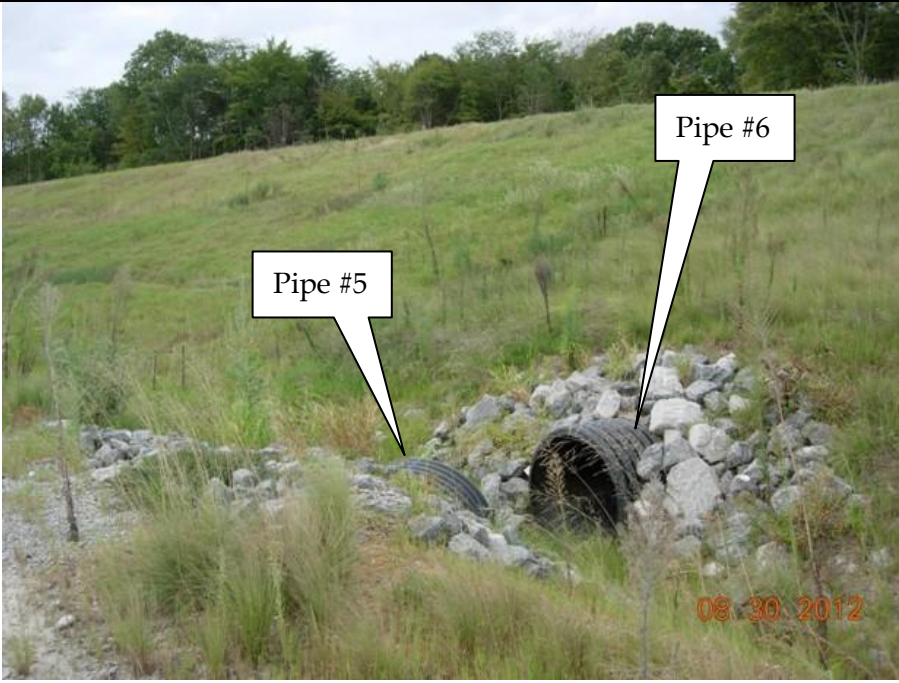

Operator:		Site Location:	Tracking No.:
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Photo No.	Date		
15	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-23 • Pipes #5 and #6 associated with SW4. • The area immediately adjacent to Pipes #5 and #6 appeared to be sufficiently stabilized/vegetated. 			

Photo No.	Date	
16	8-30-12	
Description <ul style="list-style-type: none"> • Phase 2 EC-23 • SW5 • The area surrounding SW5 appeared to be sufficiently stabilized/vegetated in some areas. However, the slope south of the outfall had sparse vegetative cover. 		

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Photo No.	Date		
17	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-23 • The slope/swale south of Pipe #7 was not sufficiently vegetated/stabilized in several areas. • Ms. Hagerty indicated that the area had been recently covered with ProMatrix. • Vegetation was emerging in areas, but remained sparse in other areas. • Insufficient stabilization/vegetation was previously documented during the inspections conducted August 23, 2011, and March 12, 2012. 			

Photo No.	Date		
18	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • SW6 • Most of the area surrounding SW6 appeared sufficiently stabilized/vegetated, except a few areas where sparse vegetative cover was noted. 			

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Photo No.	Date		
19	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • Pipe #8 • The slope/swale adjacent to the inlet of Pipe #8 had insufficient vegetative cover in many areas. 			

Photo No.	Date		
20	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • The slope south of the inlet of Pipe #8 was not sufficiently stabilized/vegetated. 			

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Operator:		Site Location:	Tracking No.:
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Photo No.	Date		
21	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • The swale which drains to SW27 is shown in this photo. • The vegetative cover was insufficient in many areas including, but not limited to the areas indicated by the arrows. • Insufficient stabilization/vegetation was previously documented during the inspections conducted August 23, 2011, and March 12, 2012. • No discharge was occurring at SW27 at the time of the inspection. 			

Photo No.	Date		
22	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • This photo shows an example of the slope up-gradient from SW27, SW28 and Stream 3. The slope was not sufficiently stabilized. • Although what appears to be Weeping Lovegrass was emerging, the slope was virtually unchanged from the previous August 23, 2011 and March 12, 2012, inspections. 			

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Photo No.	Date		
23	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • The silt fence installed at the toe of the slope adjacent to Stream 3 appeared to be at or near 50% capacity. The sediment accumulation at the toe of the slope was approximately 1 foot higher than the area on the down-gradient side of the silt fence. The same condition was documented during the March 12, 2012, inspection. • Sediment accumulation at the toe of the slope indicates sediment loss from the slope. 			
Photo No.	Date		
24	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • This photo shows an example of the transition area between the gravel/track and the vegetated slope. • The transition area was not sufficiently vegetated. • Rills and gullies were observed. • Ms. Hagerty stated the transition zone will be re-worked. 			


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Operator: Norfolk Southern Railway Company		Site Location: Rossville, Fayette County	Tracking No.: TN0081108
Photo No. 25	Date 8-30-12	<div> <div> Description <ul style="list-style-type: none"> • Phase 2 EC-24 • The slope/swale up-gradient from SW28 is shown in this photo. • The portion of the slope/swale shown in the photo appeared mostly sufficiently vegetated; however, areas of insufficient stabilization/vegetation were observed, especially further to the south (see photos 26-27). • The fence installation has also caused disturbance to established vegetation on the slope. • No discharge was occurring from SW28 at the time of the inspection. </div>  </div>	


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Operator: Norfolk Southern Railway Company		Site Location: Rossville, Fayette County	Tracking No.: TN0081108
Photo No. 26	Date 8-30-12	<div data-bbox="553 367 1469 1054" data-label="Image"> </div>	
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • A portion of the slope/swale on the western side of the site, north of Sediment Basin 1, which discharges to SW28 is shown in this photo. • This photo is up-gradient (south) of photo 25. • The slopes were not sufficiently vegetated. • Although this area appeared to have more established vegetation than during the November 22, 2011, and March 12, 2012, inspections, the area remains insufficiently stabilized/vegetated. • The fence installation has also caused recent soil disturbance. 			

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Operator: Norfolk Southern Railway Company		Site Location: Rossville, Fayette County	Tracking No.: TN0081108
Photo No. 27	Date 8-30-12	<div> <div> Description <ul style="list-style-type: none"> • Phase 2 EC-25 • Another portion of the slope/swale on the western side of the site, north of Sediment Basin 1, which discharges to SW28 is shown in this photo. • This photo is up-gradient (southwest) of photo 26. • The slopes were not sufficiently vegetated. • Although this area appeared to have more established vegetation than during the November 22, 2011, and March 12, 2012, inspections, the area remains insufficiently stabilized/vegetated. • The fence installation has also caused recent soil disturbance. </div> <div>  </div> </div>	

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Operator: Norfolk Southern Railway Company		Site Location: Rossville, Fayette County	Tracking No.: TN0081108
Photo No. 28	Date 8-30-12		
Description <ul style="list-style-type: none">• Phase 2 EC-24• SW7• Most of the area surrounding SW7 appeared sufficiently vegetated; however, Ms. Hagerty stated that the slope up-gradient of SW7 was recently re-graded and sprayed with Flexterra.• The dominant grass emerging appeared to be rye; however, some Bermuda was observed.• Neither grass was fully established and was therefore unable to provide complete and sufficient cover (see photo 29).			

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Photo No.	Date	
29	8-30-12	
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • The slope up-gradient of SW7 was recently re-graded and sprayed with Flexterra. • The dominant grass emerging appeared to be rye; however, some Bermuda was observed. • Neither grass was fully established and was therefore unable to provide complete and sufficient cover. • According to the August 23, 2011, inspection documentation, this area was sprayed with Flexterra in August of 2011, yet establishment of sufficient cover has not been accomplished. 		


Photo No.	Date	
30	8-30-12	
Description <ul style="list-style-type: none"> • Phase 1A EC-18 and 2 EC-28 • Looking west across the concrete parking/pad area. • An area approximately 60 feet in width west of the concrete was not stabilized. No erosion prevention measures (temporary or permanent) were observed. • The area to the west of the bare area was vegetated, but the vegetation was either dead or dormant and did not appear to be permanent or perennial. 		

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Operator:		Site Location:	Tracking No.:
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Photo No.	Date		
31	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-18 and 2 EC-28 • Looking northwest across the future expansion area from the yard entrance access road. • The shoulder of the road was covered with gravel. A bare section was observed between the gravel and vegetation. • The vegetation was either dead or dormant and did not appear to be permanent or perennial. 			
32	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-19 and 2 EC-29 • Sediment Basin 2 • Looking north at the northern section of the basin. • The vegetative cover on the banks of the basin appeared sufficient in most areas; however, some sparse areas were observed. • The water in the basin had been chemically treated and was being dewatered via a pump to SW30. 			


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Photo No.	Date	
33	8-30-12	

Description



- Phase 1A EC-19 and 2 EC-29
- Sediment Basin 2
- Looking east at the southern portion of the basin.
- The vegetative cover on the banks of the basin appeared sufficient in most areas; however, some sparse areas were observed.
- The water in the basin had been chemically treated and was being dewatered via a pump to SW30.

Photo No.	Date	
34	8-30-12	

Description

- Phase 2 EC-29
- SW30
- Sediment Basin 2 was being dewatered via SW30.
- The discharge water was clear.
- The slope adjacent to SW30 appeared to be sufficiently vegetated.
- Minor disturbance was observed associated with the fence installation.

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Photo No.	Date		
35	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-19 and 2 EC-29 • Sediment Basin 3 • Looking east across the basin. • The vegetative cover on the banks of the basin appeared sufficient in most areas; however, some sparse areas were observed. • Rills and gullies were observed on the western facing bank (see photos 36-37). • Rills and gullies were also observed during the previous inspection on March 12, 2012. • The water in the basin had been chemically treated and was being dewatered via a pump to SW31. 			
Photo No.	Date		
36	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-19 and 2 EC-29 • Sediment Basin 3 • The area surrounding the concrete flume was not sufficiently stabilized. • Rills and gullies were observed. 			

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Operator:		Site Location:	Tracking No.:
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Photo No.	Date		
37	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A-EC-19 and 2 EC-29 • Sediment Basin 3 • The western facing slope was not sufficiently stabilized. • Rills and gullies were observed. • Rills and gullies were also observed during the previous inspection on March 12, 2012. 			

Photo No.	Date		
38	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-29 • SW31 • Sediment Basin 3 was being dewatered via SW31. • The discharge water was clear. • The slope adjacent to SW31 appeared to be sufficiently vegetated, except an area to the north of the outfall (see photo 39) and disturbance being caused by the installation of the fence. 			

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Photo No.	Date		
39	8-30-12		
Description <ul style="list-style-type: none"> Phase 2 EC-29 This area north of SW31 was not sufficiently vegetated. 			

Photo No.	Date		
40	8-30-12		
Description <ul style="list-style-type: none"> Phase 1A EC-19 and 2 EC-29 This area of the site is south of Sediment Basin 3. Although the slope appeared to have more established vegetation than during the March 12, 2012, inspection, areas of the slope remained sparsely vegetated. Rills and gullies were observed. Sediment accumulation was observed at the toe of the slope indicating sediment loss from the slope. 			

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Photo No.	Date		
41	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-19 and 2 EC-29 • The western portion of the site, east of Sediment Basin 3, discharges into the swale shown in this photo before entering the basin. • A majority of the swale/slope appeared to be sufficiently vegetated. However, areas of sparse vegetation were observed. • The transition zone between the rip rap and slope showed signs of erosion. • The transition zone between the gravel road shoulder and the slope was not sufficiently vegetated (arrow). 			

Photo No.	Date	
42	8-30-12	
Description <ul style="list-style-type: none"> • Phase 1A EC-19 and 2 EC-29 • Drainage from the area shown in photo 41 flows westward (blue arrow) to the area shown in this photo before entering Sediment Basin 3. • The berm appeared mostly sufficiently vegetated; however, areas of erosion were observed near the middle of the berm (arrow) and some of the vegetation appeared dead or dormant and did not appear permanent or perennial. 		

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Operator:		Site Location:	Tracking No.:
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Photo No.	Date		
43	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-19 and 2 EC-29 • The swale on the east side of the eastern berm adjacent to Sediment Basin 2 is shown in this photo. • Drainage from this area discharges into the swale shown in photo 42. • Both slopes appeared vegetated; however, areas of sparse vegetation were observed. • The vegetation in some areas appeared dead or dormant and did not appear permanent or perennial. 			
Photo No.	Date		
44	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-25 • The area surrounding the inlet end of Pipe #13 is shown in this photo. • Pipe #13 discharges into the area shown in photo 45. • The slopes were not sufficiently vegetated. • Rills were observed. 			

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Operator:		Site Location:	Tracking No.:
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Photo No.	Date		
45	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-25 • The area associated with the outlet end of Pipe #13 and the inlet end of Pipe #12 is shown in this photo. • Pipe #12 discharges into Sediment Basin 1. • The area was not sufficiently vegetated. • Ms. Hagerty stated that the area was sprayed with Flexterra, but that it will be sprayed again with ProMatix. 			

Photo No.	Date		
46	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-25 • The inlet end of Pipe #12 is shown in this photo. • Pipe #12 discharges into Sediment Basin 1. • The area surrounding Pipe #12 was not sufficiently vegetated. • Rills were observed. 		<div style="position: relative; height: 100px;"> Pipe #12 </div>	


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Photo No.	Date		
47	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-25 • Looking north at the southern portion of Sediment Basin 1. • The banks of the basin were not sufficiently stabilized. • Ms. Hagerty indicated that the slope up-gradient from the two headwalls had been recently covered with Flexterra; however, vegetation had not yet established. • Rills and gullies were observed. 			
48	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-25 • Looking south at the southern portion of Sediment Basin 1. • The banks of the basin were not sufficiently stabilized. • Rills and gullies were observed. 			

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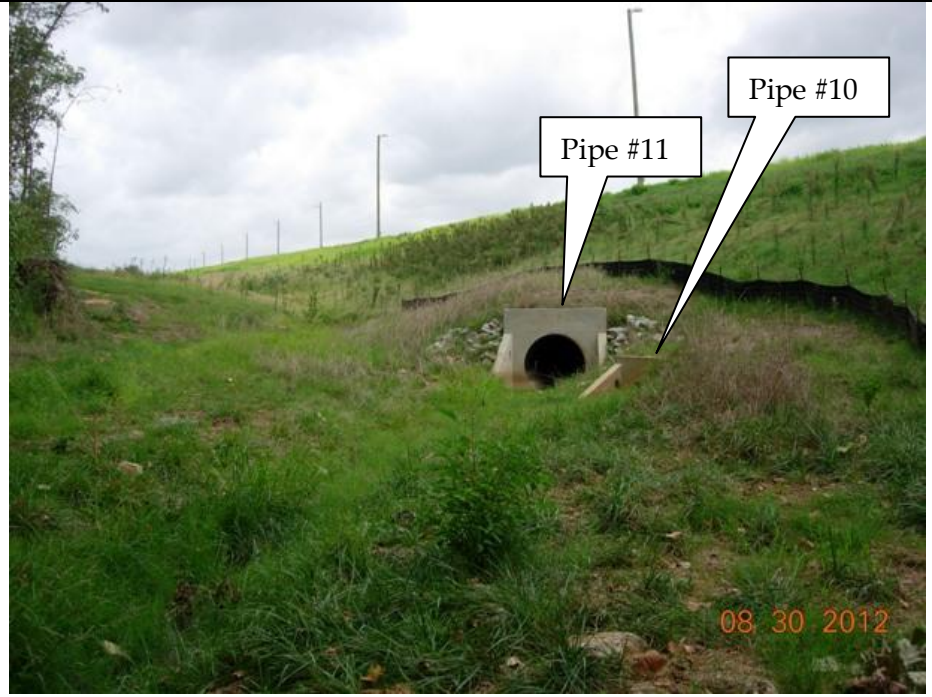
Operator:		Site Location:	Tracking No.:
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Photo No.	Date		
49	8-30-12		
Description <ul style="list-style-type: none"> Phase 1A EC-14 and 2 EC-24 Looking northeast at the northern end of Sediment Basin 1. The banks of the basin were not sufficiently vegetated. Rills and gullies were observed. Although the banks appeared to have more established vegetation than during the August 23, 2011, November 22, 2011, and March 12, 2012, inspections, the banks remain insufficiently stabilized/vegetated. A close-up view of the unstable eastern bank of the basin is shown in photo 50. The basin was not discharging at the time of the inspection. 			

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Photo No.	Date		
50	8-30-12		
Description <ul style="list-style-type: none"> Phase 1A EC-14 and 2 EC-24 The eastern bank of Sediment Basin 1 is shown in this photo. The bank is not sufficiently stabilized/vegetated. Although the banks appeared to have more established vegetation than during the August 23, 2011, November 22, 2011, and March 12, 2012, inspections, the banks remain insufficiently stabilized/vegetated. Rills and gullies were observed. 			

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Photo No.	Date		
51	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • The inlet of Pipe #10 and associated low area is shown in this photo. • The slopes of the low area lack sufficient vegetation in areas. • Although the area appeared to have more established vegetation than during the August 23, 2011, November 22, 2011, and March 12, 2012, inspections, the area remains insufficiently stabilized/vegetated. • Ms. Hagerty indicated that ProMatrix had been sprayed on the slopes. 			

Photo No.	Date		
52	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • The outlet ends of Pipe #11 and Pipe #10 are shown in this photo. • Pipe #11 receives drainage from Sediment Basin 1, which was not discharging at the time of the inspection. • No discharge was occurring from Pipe #10. • Discharge flowing to SW9 from the northern draining eastern drainage ditch/Sediment Basin 8 was observed. The discharge water appeared clear. 			

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Photo No.	Date		
53	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • SW9 • Discharge from the northern draining eastern drainage ditch/Sediment Basin 8 was observed flowing to SW9 and into Stream 5. The discharge water appeared clear. • The row of enhanced silt fence observed during previous inspections had been removed. • The area immediately surrounding SW9 appeared to be sufficiently stabilized/vegetated. 			
Photo No.	Date		
54	8-30-12		
Description <ul style="list-style-type: none"> • Stream 5 downstream of SW9 is shown in this photo. • The water in the stream appeared to be flowing in response to the discharge originating from the northern draining eastern drainage ditch/Sediment Basin 8. 			

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Photo No.	Date		
55	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-24 • The fence installation along the limits of clearing, west of Stream 5, has caused disturbance. • No erosion prevention or sediment controls were observed. 			

Photo No.	Date		
56	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-30 • The inlet end of Pipe #41 associated with SW34 is shown in this photo. • The slope adjacent to the pipe was not sufficiently stabilized/vegetated. • The bottom of the swale leading to Pipe #41 appeared to be sufficiently vegetated, but some areas were sparsely vegetated. • Ms. Hagerty stated that the slope was at final grade. • Rills were observed. 			

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Photo No.	Date		
57	8-30-12		
Description <ul style="list-style-type: none"> Phase 1A EC-20 SW34 (outlet end of Pipe #41) Ms. Hagerty stated that the drainage swale down-gradient from the headwall was not at final grade and that the enhanced rock check dam would be removed. The area surrounding SW34 appeared well vegetated/stabilized. 			

Photo No.	Date		
58	8-30-12		
Description <ul style="list-style-type: none"> Phase 1A EC-20 A berm south of SW34 is shown in this photo. Ms. Hagerty states that the berm was covered with Flexterra earlier in the week. No vegetation growth had emerged yet. 			

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Photo No.	Date		
59	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-30 • SW42 • Ms. Hagerty stated that the area surrounding SW42 was sprayed with Flexterra earlier in the week. • No vegetative growth had emerged yet. • The water in the pond north of SW42 appeared clear. 			

Photo No.	Date		
60	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-30 • SW38 • SW38 discharges to Pond 4. • The slope and swale associated with SW38 appeared to be sufficiently stabilized/vegetated; however, sparse coverage was observed on the slope between SW38 and Pipe #31- see photos 61 and 62. 			

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Photo No.	Date		
61	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-30 • This photo is of the slope between SW38 and Pipe #31. • The vegetative cover was not sufficient. • Much of the vegetation appeared dead or dormant and did not appear permanent or perennial. 			

Photo No.	Date		
62	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-30 • Pipe #31 is shown in this photo. • The slope between SW38 and Pipe #31 is also shown in this photo. • The vegetative cover was not sufficient. • Much of the vegetation appeared dead or dormant and did not appear permanent or perennial. 			

Photographic Log for Memphis Regional Intermodal Facility







Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
63	8-30-12		
Description <ul style="list-style-type: none"> Phase 2 EC-30 SW19 SW19 discharges into Pond 4. Portions of the slope and swale associated with SW19 appeared to have sufficient vegetation. However, some areas were sparsely vegetated. Rills and gullies were observed. 			

Photo No.	Date	
64	8-30-12	
Description <ul style="list-style-type: none"> Phase 2 EC-30 Former location of SW20 The area surrounding SW20 appeared mostly sufficiently stabilized. However, sparse vegetation on the slope up-gradient of the outfall and Pond 4 was observed. 		

Photographic Log for Memphis Regional Intermodal Facility

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
65	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • SW36 and the location of the inlet end of Pipe #32 are shown in this photo. • Pipe #32 discharges into Pond 4. • The swales leading to SW36 appeared to be mostly sufficiently vegetated, but sparse areas were observed. 			
Photo No.	Date		
66	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • SW17 • The area surrounding SW17 appeared sufficiently vegetated. However, the swale/slope which conveys drainage to SW17 was not sufficiently stabilized/vegetated in some areas (see photos 67-68). 			

Photographic Log for Memphis Regional Intermodal Facility

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
67	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • This photo was taken near Station 180+00 on the Loop Track. This area discharges to SW17. • Ms. Hagerty explained that the rip rap flume was installed to control run-on onto the site, which was causing the slope to erode. • Ms. Hagerty also explained that the area surrounding the flume was re-graded and covered with Flexterra approximately one month prior to this inspection. • No vegetative growth was observed yet. 			
Photo No.	Date		
68	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • This photo was taken near Station 180+00 on the Loop Track. This area discharges to SW17. • Ms. Hagerty explained that this area was re-graded and covered with Flexterra approximately one month prior to this inspection. • No vegetative growth was observed yet. 			

Photographic Log for Memphis Regional Intermodal Facility



Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
69	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • This photo was taken near Station 180+00 on the Loop Track. This area discharges to SW36. • Ms. Hagerty explained that the area was re-graded and covered with ProMatrix. • No vegetative growth was observed yet. 			

Photo No.	Date		
70	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • Former location of SW39 • The slope up-gradient from the former location of SW39 appeared to be sufficiently vegetated; however, coverage was sparse and insufficient in some areas. 			

Photographic Log for Memphis Regional Intermodal Facility



Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
71	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-17 • SW14 • SW14 discharges into Stream 6; however, no discharge was occurring at the time of the inspection. • Sediment accumulation appeared to have been recently removed from the silt fence. • Based on the sediment staining on the silt fence, sediment accumulation had reached the top of the fencing. • Areas adjacent to SW14 were not sufficiently vegetated. 			

Photo No.	Date		
72	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-17 • The area shown in this photo is the area between Stations 160+00 and 215+00 on Loop Track LP-1. • Discharge from the western side of the eastern portion of the Loop Track-169+00-161+00 (blue arrow) flows through this area toward SW 13. • Ms. Hagerty stated that a sump (red arrow) was created up-gradient of the inlet end of the pipe. 			

Photographic Log for Memphis Regional Intermodal Facility



Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
73	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-17 • Looking north at an area of disturbance on the southwestern corner of the Loop Track bridge. • No erosion prevention or sediment control measures were observed in this area. • This area drains to the north toward Stream 6. 			

Photo No.	Date	
74	8-30-12	
Description <ul style="list-style-type: none"> • Phase 1A EC-17 • The southwestern corner of the Loop Track bridge adjacent to Stream 6 is shown in this photo. • Sediment accumulation was observed covering the top of the stream bank down-gradient from the silt fence evidencing that sediment has escaped the silt fence and is not sufficient. 		

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Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
75	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • The northwestern corner of the Loop Track bridge adjacent to Stream 6 is shown in this photo. • No erosion prevention or sediment controls were installed on the bank of Stream 6. 			

Photo No.	Date		
76	8-30-12		
Description <ul style="list-style-type: none"> • Stream 6 at the confluence of the northwest and southwest corners of the Loop Track bridge is shown in this photo. • Sediment accumulation appeared to be covering the bed of Stream 6 at the confluence point. • Stream 6 could not be safely accessed due to the steepness of the bank. • No water was observed in Stream 6 at the time of the inspection. 			

Photographic Log for Memphis Regional Intermodal Facility


Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
77	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-17 • This photo is an example of the northern side of the Loop Track. • The photo was taken at approximately Station 210+00. • Rills and gullies were observed. • The vegetation was dead or dormant and did not appear permanent or perennial. • Vegetative cover was not sufficient. 			

Photo No.	Date		
78	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • The swale leading to SW15 is shown in this photo. • Weeping Lovegrass was establishing, but was sparse. 			

Photographic Log for Memphis Regional Intermodal Facility





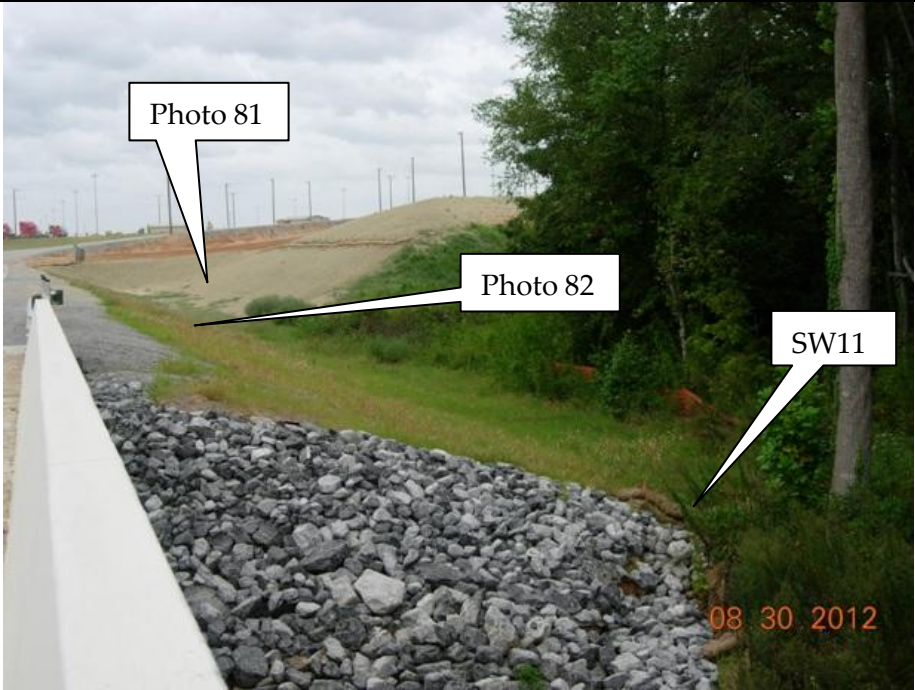

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
79	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • SW16 • Weeping Lovegrass was establishing, but was sparse in areas. 			

Photo No.	Date	
80	8-30-12	
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • Looking downstream at Stream 6 from the permanent road (entrance road) bridge over Stream6. • No flow was observed in Stream 6. 		

Photographic Log for Memphis Regional Intermodal Facility

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
81	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-26 • The area shown in this photo discharges to the northeast corner of the permanent road (entrance road) bridge over Stream 6 (see photo 83). • Ms. Hagerty stated that the stockpile was covered with Flexterra earlier in the week. • No vegetation was observed in the newly sprayed areas. 			
Photo No.	Date		
82	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • The slope/swale up-gradient from the northeast corner of the permanent road (entrance road) bridge over Stream 6 was not sufficiently vegetated as shown in this photo. • Rills and gullies were observed. • Silt fence located at the toe of the slope appeared to be past 50% capacity. 			

Photographic Log for Memphis Regional Intermodal Facility

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
83	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • Looking north at the northeast corner of the permanent road (entrance road) bridge over Stream 6. • Ms. Hagerty indicated that the location of SW11 has been moved to the swale on the northeast corner of the permanent road bridge over Stream 6. • The locations of photos 81 and 82 are noted. 			
Photo No.	Date		
84	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-26 and EC-27 • The blue arrow indicates the discharges directed towards SW33. • Ms. Hagerty stated that the check dams and straw wattles were installed earlier in the week. She also indicated that the area was sprayed with Flexterra earlier in the week. • No vegetation was observed in the newly sprayed areas. 			

Photographic Log for Memphis Regional Intermodal Facility


Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
85	8-30-12		
Description <ul style="list-style-type: none"> Phase 1A EC-16 Sediment Basin 4 Weeping Lovegrass was establishing on the banks of the basin; however, sparse vegetative cover was observed in some areas. Rills and gullies were observed on the banks of the basin-see photo 86. The basin was not discharging at the time of the inspection. 			

Photo No.	Date	
86	8-30-12	
Description <ul style="list-style-type: none"> Phase 1A EC-16 Sediment Basin 4 A view of gullies on the northern bank of the basin is shown in this photo. 		

Photographic Log for Memphis Regional Intermodal Facility

Operator: Norfolk Southern Railway Company	Site Location: Rossville, Fayette County	Tracking No.: TN0081108
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Photo No.	Date	
87	8-30-12	
Description <ul style="list-style-type: none"> • Phase 2 EC-29 • SW37 (outlet end of Pipe #40) • SW37 is the discharge point of Sediment Basin 4 and discharges into Stream 4. • No discharge was occurring at the time of the inspection. • Although the slope adjacent to and up-gradient from SW37 appeared to have more established vegetation than during the March 12, 2012, inspection, the area remains insufficiently vegetated (see photo 88). • Rills and gullies were observed. • Rills and gullies were also observed during the previous inspection on March 12, 2012. 		

Photo No.	Date	
88	8-30-12	
Description <ul style="list-style-type: none"> • Phase 2 EC-29 • Although the slope adjacent to and up-gradient from SW37 appeared to have more established vegetation than during the March 12, 2012, inspection, the area remains insufficiently vegetated as shown in this photo. • Rills and gullies were observed. • Rills and gullies were also observed during the previous inspection on March 12, 2012. 		

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Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
89	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-26 and EC-29 • The slope east of the unaltered portion of Stream 4 and SW37 is shown in this photo. • Although the area appeared to have more established vegetation than during the March 12, 2012, inspection, the vegetative cover appeared dead or dormant, did not appear permanent or perennial and was not sufficient. 			
Photo No.	Date		
90	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • Former location of Sediment Basin 5 • Ms. Hagerty indicated that the area was being used to place fill material. 			

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Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
91	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • SW12 at Stream 6 • No discharge was occurring at the time of the inspection. • No flow was observed in Stream 6. However, accumulation of silt covering the stream bed appeared evident at and downstream of the discharge point of SW12. • The southern draining eastern drainage ditch, which conveys drainage to SW12, was not sufficiently stabilized/vegetated (see photos 92-96). 			

Photo No.	Date		
92	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • The slope adjacent to the northeast corner of the Loop Track bridge over Stream 6 is shown in this photo. • The slope was not stabilized. • One straw wattle at the toe of the slope would not be sufficient during a rain event. • The up-gradient portion of the southern draining eastern drainage ditch, which conveys drainage to SW12, was not sufficiently stabilized/vegetated –(see photos 93-96). 			

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Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
93	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • A portion of the top slope of the southern draining eastern drainage ditch, which conveys drainage to SW12, is shown in this photo. • The slope was not sufficiently stabilized/vegetated. • Gullies were observed. 			

Photo No.	Date		
94	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • This photo shows an example of another portion of the southern draining eastern drainage ditch, which conveys drainage to SW12. • Vegetation/stabilization was not sufficient. • Rills and gullies were observed. • Sediment accumulation in the bottom of the swale is an indication of sediment loss from the slopes. 			

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Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
95	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-17 • A massive slope failure has occurred on the northern end of the southern draining eastern drainage ditch (see also photo 96). • Vegetation/stabilization was not sufficient. • Rills and gullies were observed. 			

Photo No.	Date		
96	8-30-12		
Description <ul style="list-style-type: none"> • Phase 1A EC-17 • A massive slope failure has occurred on the northern end of the southern draining eastern drainage ditch. • Vegetation/stabilization was not sufficient. • Rills and gullies were observed. 			


Photographic Log for Memphis Regional Intermodal Facility

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
97	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • This photo is an example of the insufficient vegetation/stabilization on the northern draining eastern drainage ditch. • Although the area appeared to have more established vegetation than during the August 23, 2011, and March 12, 2012, inspection, the vegetative cover remains insufficient. • Drainage from this area flows into Sediment Basin 8, which was discharging at the time of the inspection. • Rills and gullies were observed. • Rills and gullies were also observed during the August 23, 2011, and March 12, 2012, inspections. • Sediment accumulation in the bottom of the swale is an indication of sediment loss from the slopes. 			


Photographic Log for Memphis Regional Intermodal Facility

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
98	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • This photo is another example of the insufficient vegetation/stabilization on the northern draining eastern drainage ditch. • Although the area appeared to have more established vegetation than during the August 23, 2011, and March 12, 2012, inspection, the vegetative cover remains insufficient. • Drainage from this area flows into Sediment Basin 8, which was discharging at the time of the inspection. • Rills and gullies were observed. • Rills and gullies were also observed during the August 23, 2011, and March 12, 2012, inspections. 			

Photographic Log for Memphis Regional Intermodal Facility

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
99	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • This photo is another example of the insufficient vegetation/stabilization on the northern draining eastern drainage ditch. • Although the area appeared to have more established vegetation than during the August 23, 2011, and March 12, 2012, inspection, the vegetative cover remains insufficient. • Drainage from this area flows into Sediment Basin 8, which was discharging at the time of the inspection. • Rills and gullies were observed. • Rills and gullies were also observed during the August 23, 2011, and March 12, 2012, inspections. • Sediment accumulation in the bottom of the swale is an indication of sediment loss from the slopes. 			

Photographic Log for Memphis Regional Intermodal Facility

Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
100	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-27 • This photo is another example of the insufficient vegetation/stabilization on the northern draining eastern drainage ditch. • Although the area appeared to have more established vegetation than during the August 23, 2011, and March 12, 2012, inspection, the vegetative cover remains insufficient. • Drainage from this area flows into Sediment Basin 8, which was discharging at the time of the inspection. • Rills and gullies were observed. • Rills and gullies were also observed during the August 23, 2011, and March 12, 2012, inspections. • Sediment accumulation in the bottom of the swale is an indication of sediment loss from the slopes. 			

Photographic Log for Memphis Regional Intermodal Facility


Operator:		Site Location:	Tracking No.:
Norfolk Southern Railway Company		Rossville, Fayette County	TN0081108
Photo No.	Date		
101	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-25 • Sediment Basin 8 • Water was discharging from Sediment Basin 8 at the time of the inspection. It did not appear to be a controlled release via the riser pipe, but rather a leak. Ms. Hagerty indicated that she would have someone look into it. • Portions of the slopes within the basin were not sufficiently vegetated. • Rills were observed. 			

Photo No.	Date		
102	8-30-12		
Description <ul style="list-style-type: none"> • Phase 2 EC-25 • The northern draining eastern drainage ditch north of Sediment Basin 8 is shown in this photo. • The slope/swale appeared to be well vegetated/stabilized. • SW9 is at the bottom of the slope. • Clear water was discharging from Sediment Basin 8 into the ditch. 			